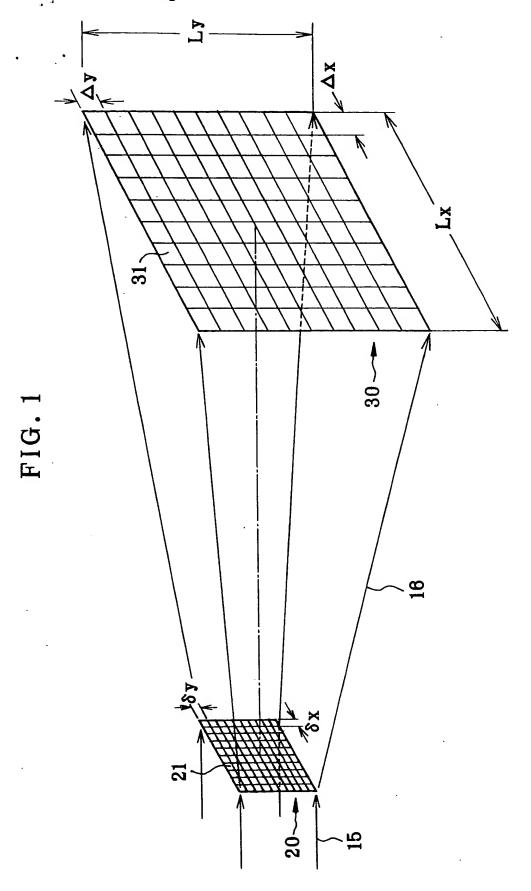
Tsuyoshi YAMAUCHI, et al. Q76817 HOLOGRAPHIC ... Filing Date: August 4, 2003 Darryl Mexic 202-663-7909 Page 1 of 7



Filing Date: August 4, 2003 Darryl Mexic 202-663-7909 Page 2 of 7 $\phi_{\text{HOLO}}(u,v) \leftarrow Multivalued processing$ (P) Application of bound condition (N 4 AHOLO (u, v) [A_{HOLO} (u, v) $\phi_{\text{HOLO}}(\mathbf{n},\mathbf{r})$ $\phi_{\text{HOLO}}\left(\mathbf{n},\mathbf{v}\right)$ → Hologram $A_{HOLO}(u,v) \leftarrow 1$ Fourier transform space Inverse Fourier transform $\left[A_{\text{IMG}}\left(\mathbf{x,y}\right)\right]$ $\phi_{\text{IMG}}(x,y)$ AIMG (X,Y) $\phi_{\text{IMG}}(x,y)$ Image≪ FIG. 2 space Pixel value of input image A_{IMG} (x,y) <--Pixel value of input image $A_{IMG}(x,y) \Rightarrow Pixel value of input image$ **©** (D) \odot Application of bound condition Convergence judgment $\phi_{IMG}(x,y) \leftarrow -Random$ Intact YES 0 N START END Initialization $A_{IMG}(x,y)$ φ_{IMG} (x,y)

Tsuyoshi YAMAUCHI, et al. Q76817 HOLOGRAPHIC ...

Tsuyoshi YAMAUCHI, et al. Q76817 HOLOGRAPHIC ... Filing Date: August 4, 2003 Darryl Mexic 202-663-7909 Page 3 of 7

FIG. 3

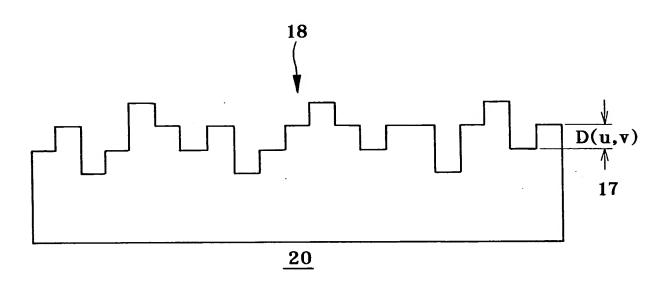


FIG. 4(a)

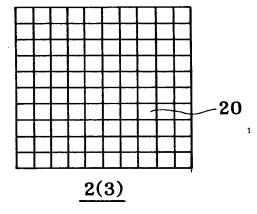
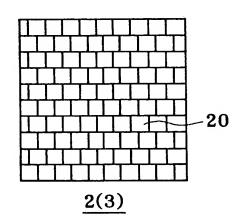


FIG. 4(b)



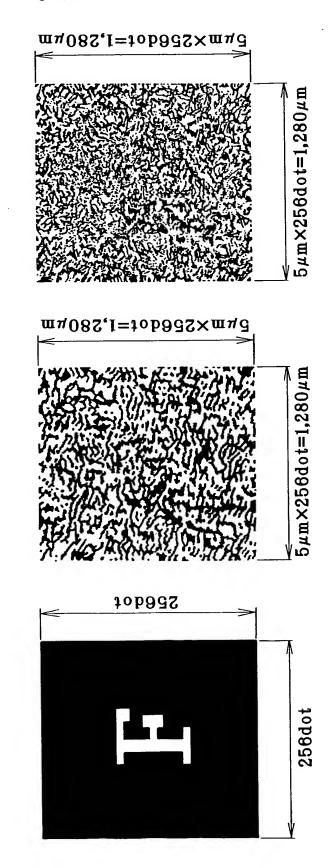
Tsuyoshi YAMAUCHI, et al. Q76817 HOLOGRAPHIC ... Filing Date: August 4, 2003 Darryl Mexic 202-663-7909

Page #of 7

FIG. 5(c)

FIG. 5(b)

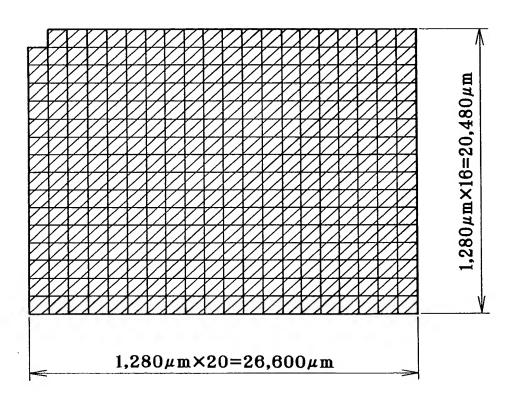
FIG. 5(a)



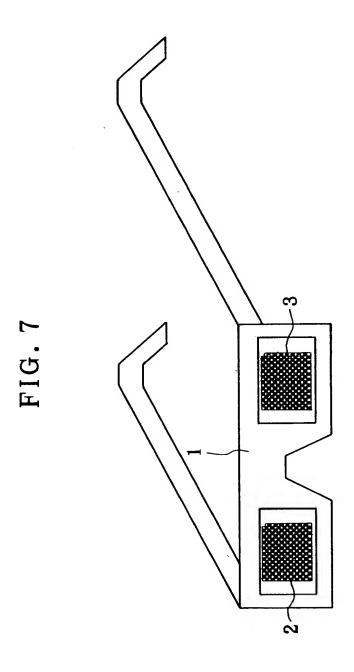
Tsuyoshi YAMAUCHI, et al. Q76817 HOLOGRAPHIC ... Filing Date: August 4, 2003 Darryl Mexic 202-663-7909

Page 5 of 7

FIG. 6



Tsuyoshi YAMAUCHI, et al. Q76817 HOLOGRAPHIC ... Filing Date: August 4, 2003 Darryl Mexic 202-663-7909 Page 6 of 7



Tsuyoshi YAMAUCHI, et al. Q76817 HOLOGRAPHIC ... Filing Date: August 4, 2003 Darryl Mexic 202-663-7909

Page 7 of 7

FIG. 8(a)

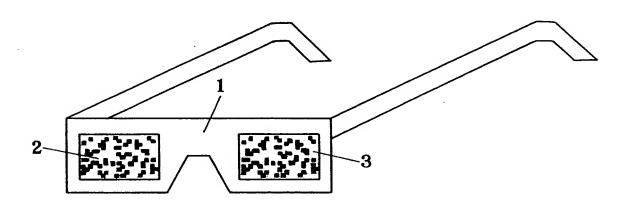


FIG. 8(b)

FIG. 8(c)

